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IV. *Observationes Cœlestes Multifariæ inter Menses Novemb. 1727, & Novemb. 1728, Pekini in SINIS, habitæ & ad Rev. P. Joannem Baptistam Carbone, Soc. Jes. transmissæ. Ex eadem Epistola descriptæ.*

I. *Immerfiones, & Emerfiones Satellitum Jovis observatæ Pekini in Sinis.*

SATELL. I.

		D.	H.	'	"	
Immerfiones.	Nov.	2	10	21	10	Vesp.
		10	0	14	26	Mane.
		11	6	44	10	Vesp.
	Dec.	3	2	30	42	Mane.
Emerfiones.		10	4	22	5	Mane.
		11	10	50	0	Vesp.
		13	5	17	50	Vesp.
		19	0	40	44	Mane.
		20	7	8	20	Vesp.
		26	2	32	33	Mane.
		27	9	0	0	Vesp.

Jan.

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		D.	H.	'	"	
1728.	{ Jan.	3	10	51	50	Vesp.
		5	5	20	0	Vesp.
		11	0	45	18	Mane.
		12	7	13	27	Vesp.
		19	9	5	40	Vesp.
		26	0	59	0	Vesp.
Emerfiones.		28	5	27	20	Vesp.
	{ Feb.	4	7	22	0	Vesp.
		11	9	16	40	Vesp.
		18	11	12	30	Vesp.
		20	5	41	50	Vesp.
	{ Mart.	21	7	58	55	Vesp.
	{ Sept.	20	1	12	12	Mane.
	{ Oct.	4	5	6	0	Mane.
Immerfiones.		13	1	30	0	Mane.
		20	3	26	15	Mane.
		27	5	19	30	Mane.

SATELL. II.

Immerf. 1727.	Nov.	6	4	5	40	Mane.
	{ Dec.	1	3	40	45	Mane.
		4	5	2	0	Vesp.
Emerfiones.		11	7	37	42	Vesp.
		18	10	11	13	Vesp.
		26	0	47	39	Mane.
1728.	{ Jan.	5	4	42	0	Vesp.
		12	7	16	16	Vesp.
Emerfiones.		19	9	51	0	Vesp.
	{ Feb.	13	7	3	45	Vesp.
		20	9	46	0	Vesp.
Immerfio.	{ Oct.	30	3	34	10	Mane.

D d d

SATELL.

S A T E L L. III.

		D.	H.	'	"	
1727.						
Incipit	{ Nov.	21	7	57	0	Vesp.
emergere		28	11	53	0	Vesp.
1728.						
Immersf. tot.	Jan.	3	5	43	40	Vesp.
Emerf. prima			7	42	0	Vesp.
Immersf. tot.		10	9	42	52	Vesp.
Emerf. prima			11	42	20	Vesp.
Immersio	{ Feb.	22	9	42	30	Vesp.
totalis.		2 Oct.	9	6	30	Mane.

II. *Observatio Eclipsis Lunæ die 19 Aug. 1728, habita Pekini in Observatorio publico.**Horol. Corr.*

H.	'	"	Non multo ante Eclipsim dimensa diameter Lunæ erat 30' 50".
10	54	0	Penumbra jam inficiebat partes Lunæ primo inumbrandas.
11	2	0	Initium Eclipsis paulo infra Cleostratum.
	13	0	Umbra attingit Aristarchum.
	14	30	Obtextit totum.
	15	20	Attingit Platonem.
	16	50	Obtextit totum.
	22	20	Attingit Galilæum & Timocharim.
	23	20	Pitheam.
	26	30	Kepplerum.
	27	30	Aristillum.
	31	30	Hevelium, Copernicum, & Endymionem fere simul.
	36	20	Ricciolum.
	38	15	Possidonium.
	40	10	Grimaldum, & Mercurium.
	41	40	Manilium.

Mene.

H.	1	"	
II	43	40	Menelaum.
	47	0	Plinium, & Geminum.
	52	0	Umbra ad centrum Lunæ, oblecto Grimaldo toto.
	54	20	Attingit mare Cri-
	56	40	Ariadæum [fium } Grimaldi apice au-
	57	0	Proclum } strali hærente ad
			} marginem umbræ.
12	0	0	Culminante Luna recta per medium Ty-
			chonem tendens inter Munosium, &
			Profatium ad Copernicum coincidit
			cum plano Meridiani.
	2	30	Umbra attingit Promontorium } Lente
			acutum, } admo-
	4	30	Censorinum & Tarantium, } dum e-
	6	0	Mare Crisium totum oblectum, } mergen-
	15	30	Umbra attingit S. Theophilum, } te Gri-
	16	0	S. Cyrillum, } maldo.
	21	30	Langrenium. Grimaldo integre emerfo.
	25	15	S. Catharinam, Ricciolo toto relecto.
	31	0	Circa medium Eclipsis micrometro di-
			menfa quantitas obfurationis erat
			Sinice digit. $6\frac{1}{2}$ ferme, five more Eu-
			ropæo digit. $7\frac{1}{4}$.
12	34	0	Emerfit Hevelius totus.
	36	0	Umbra ad Fracastorium.
	43	0	Galilæus
	46	30	Lansbergius } integre detecti.
	52	0	Keplerus }
13	1	0	Aristarchus }
	2	0	Copernicus incipit emergere.
	5	0	Totus detegitur.
	10	0	Margo umbræ per centrum Lunæ.
	11	30	Pitheas emerfit.
	15	0	Eratosthenes & S. Cyrillus detecti.

H.	'	"	
13	20	0	Timocharis & S. Theophilus detecti.
	22	20	Ariadæus
	25	0	Manilius
	29	30	Aristillus
	32	0	Plato
	33	0	Censorinus
	34	0	Promontorium acutum.
	38	0	Plinius, & Langrenius integrè detecti.
14	0	0	Finis Eclipsis proximè Berofum.

In fine Eclipsis diameter Lunæ inventa est 30' 38".

Durante Eclipsi sæpius addensati vapores turbabant faciem Lunæ, ut ejus maculæ, & umbræ margo non satis distinctè possent discerni; maxime id accidit ante, & circa finem Eclipsis.

III. Aliquot Occultationes fixarum per Lunam, observatæ Pekini, A. C. 1728.

Januar. die 2 Mane Luna occultavit Stellam ϵ *Leonis* Immerfio erat 2^h 35' 20" in recta per Tychonem & S. Theophilum Emerfio fuit 3^h 20' 40" in recta per S. Theophilum & Eratosthenem.

Die 22 Summo Mane Luna transivit per *Pleiadas*.
1^h 0' 25" immerfit *Taygeta* post Lunam, in recta cum Bullialdo, & Abilfedea.

1^h 9' 30" *Celæno*, à Cuspide cornu australi pauculis secundis distans in recta ex Tychone per Clavium, mox disparuit nimia fluctuatione lucidi limbi Lunæ absorpta.

1^h 18' 24" immerfit *Sterope* in recta cum Bullialdo, & Fracastore.

1^h 25' 56" *Maia* in recta ex Tychone per Longomontanum. Emerfio nullius videri poterat ob nimiam fluctuationem lucis Lunæ inter vapores.

Die 29. Vesp. Luna obtexit Stellam π *Leonis* Immerfio

fio fuit $9^h 27' 53''$ in recta cum Galilæo, & Lansbergio. Emerfio verò $10^h 24' 17''$ in recta cum Macrobio & Sofigene.

Mart. die 21 Vesp. occultavit Luna Stellam γ *Canceri*. Immerfio fuit $8^h 14'$ in recta per Copernicum & Boreum marginem Langreni. Emerfio fuit neglecta.

Maii die 24 Summo Mane $1^h 51' 30''$ Luna abforbuit Stellam τ *Scorpionis* proxime Byrgium. Emerfio non fuit obfervata.

Sept. die 14 Vesp. Luna occultavit Stellam η *Capricorni*. Immerfio fuit $8^h 11' 20''$ inter Seleucum & Cardanum. Emerfio $9^h 37' 30''$ paulo infra Langrenum.

Die 19 Vesp. Luna obtexit Stellam δ *Pifcium*. Immerfio fuit $8^h 43' 45''$ in recta per Tychonem & Langrenum. Emerfio autem $9^h 5' 15''$ in recta cum Tychone & Keplero.

Oct. die 28 Manè Luna occultavit Regulum, feu Cor *Leonis* Immerfio fuit $1^h 39' 50''$ in recta per Aristarchum & Gaffendum. Emerfio $2^h 11' 15''$ in recta per Aristarchum & Cardanum.

V. *An Account of the Veins and Arteries of Leaves.*

By Frank Nicholls, M. D. *Præl. Anat. Oxon.*
F. R. S.

BY a Letter from Dr. *Fuller* in *Holland* to the President, and communicated about *October* last, the Society was informed, that the ingenious Professor *Ruyfch* had observed something in the dissecting of Leaves analogous to the Veins and Arteries of Animals; but without explaining in what Manner these different Vessels were disposed, or by what Means they may be distinguished from each other.

When